



# **STIC Search Report**

**EIC 3700**

**STIC Database Tracking Number: 156941**

**TO: Patricia Martin**  
**Location: RND 8a40**  
**Art Unit: 3700**  
**Monday, June 20, 2005**

**Case Serial Number: 10/696510**

**From: Terry Solomon**  
**Location: EIC 3700**  
**RND 8b31**  
**Phone: 272-4240**

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## **Search Notes**

No current or past litigation found involving US pat. 6408849.

Sources:

Lexis/Nexis  
Questel-Orbit

336060 (09) 6408849 June 25, 2002

Time of Request: June 20, 2005 09:19 AM EDT

Research Information:

Utility, Design and Plant Patents  
patno=6408849

UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT

6408849

June 25, 2002

Recovery and purification of gases used in medical processes

**REISSUE:** October 29, 2003 - Reissue Application filed Ex. Gp.: 3761; Re. S.N. 10/696,510 (O.G. June 15, 2004)

**APPL-NO:** 336060 (09)

**FILED-DATE:** June 18, 1999

**GRANTED-DATE:** June 25, 2002

**ASSIGNEE-AT-ISSUE:** Aeronex, Inc., San Diego, California, 02

**ASSIGNEE-AFTER-ISSUE:** June 18, 1999 - ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS)., AERONEX, INC. 6975 FLANDERS DRIVE SAN DIEGO CALIFORNIA 92121, Reel and Frame Number: 10047/0066

February 6, 2004 - ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS)., MYKROLIS CORPORATION 129 CONCORD ROAD BILLERICA MASSACHUSETTS 01821-4600, Reel and Frame Number: 14313/0305

**LEGAL-REP:** Brown Martin Haller & McClain - ##0

Selected file: PLUSPAT  
PLUSPAT - (c) Questel-Orbit, All Rights Reserved.  
Comprehensive Worldwide Patents database

**\*\* SS 1: Results 1**  
**PRT SS 1 MAX 1 LEGALALL**

1 / 1 PLUSPAT - @QUESTEL-ORBIT - image

**Patent Number :**

US6408849 B1 20020625 [US6408849]

**Title :**

(B1) Recovery and purification of gases used in medical processes

**Patent Assignee :**

(B1) AERONEX INC (US)

**Patent Assignee :**

Aeronex, Inc., San Diego CA [US]

**Inventor(s) :**

(B1) ALVAREZ JR DANIEL (US); COOK JOSHUA T (US); SHOGREN PETER K  
(US); SPIEGELMAN JEFFREY J (US)

**Application Nbr :**

US33606099 19990618 [1999US-0336060]

**Priority Details :**

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**Intl Patent Class :**

(B1) A62B-007/10 A62B-023/02

**EPO ECLA Class :**

B01D-053/04  
B01D-053/26B  
C01B-023/00D6

**EPO ICO Class :**

M01B-210/00D4D  
M01B-210/00D4D12  
M01B-210/00Q  
M01B-210/00W10  
M01B-210/00W14  
M01B-210/00W2  
M01B-210/00W4

**US Patent Class :**

ORIGINAL (O) : 128205270; CROSS-REFERENCE (X) : 128205120 128205280  
128898000

**Document Type :**

Corresponding document

**Citations :**

US3674022; US5542966; US5545396; US5632803; US5642625; US5707425;  
US5785953; US5789921; US5803064; US5809801; US5860295; US5934103;  
US6059859; US6089282; US6125654; US6134913; WO0078398; WO0078432  
Albert and Balamore, Physics Res. A Nucl. Instr. And Meth.,  
"Development of hyperpolarized noble gas MRI," 402:441-453 (1998).

Beardsley, "Seeing the Breath of Life," Scientific American,  
280(6):33-34 (Jun. 1999).

**Publication Stage :**

(B1) U.S. Patent (no pre-grant pub.) after Jan. 2, 2001

**Abstract :**

A method is disclosed for providing a pure gas for use medical procedures in which the gas is contaminated with other gases during the procedure, and then separating the contaminants and recovering and reusing the decontaminated gas. The method is most advantageously used in medical imaging processes, such as magnetic resonance image (MRI), where hyperpolarized image enhancing noble gases, notably He3 or Xe129, are used for image enhancement in brain and lung imaging, and in which the contaminants are normally the exhalant gases from the imaged patient. The contaminated gas is passed through a series of drying and

purification steps to remove the exhalant gases and separate the gas. The purified gas is then recovered and stored for reuse. This system prevents the loss of significant amounts of the image enhancing gases, which is important since key gases such as He3 and Xe129 are rare and expensive, and (especially He3) permanently lost once vented. Recovery of medical process gases such as those including isotopes of carbon, fluorine or phosphorus is also contemplated. High quality MR images of lung structures and processes and of brain functions can be obtained using the purified gases from this process.

**Update Code :**  
2002-27

1 / 1 LGST - ©EPO

**Patent Number :**  
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**Application Number :**  
US33606099 19990618 [1999US-0336060]  
**Action Taken :**  
20040206 US/AS-A

OWNER: MYKROLIS CORPORATION 129 CONCORD ROADBILLERICA, MA; EFFECTIVE  
DATE: 20031027  
ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNOR:AERONEX, INC.  
/AR;REEL/FRAME:014313/0305

20040615 US/RF-A  
REISSUE APPLICATION FILED  
EFFECTIVE DATE: 20031029

**Update Code :**  
2005-18

1 / 1 CRXX - ©CLAIMS/RRX

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6,408,849 A 20020625 [US6408849]  
**Patent Assignee :**  
Aeronex Inc  
**Actions :**  
20031029 REISSUE REQUESTED  
ISSUE DATE OF O.G.: 20040615  
REISSUE REQUEST NUMBER: 10/696510  
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 3761

Reissue Patent Number:

20040206 REASSIGNED  
ASSIGNMENT OF ASSIGNORS INTEREST

Assignor: AERONEX, INC., DATE SIGNED: 10/27/2003

Assignee: MYKROLIS CORPORATION, 129 CONCORD ROAD, BILLERICA,  
MASSACHUSETTS, 01821-4600

Reel 014313/Frame 0305

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Session finished: 20 JUN 2005 Time 17:05:50  
QUESTEL.ORBIT thanks you. Hope to hear from you again soon.